**Steps for Register DSC and File GSTR (1, 2, 3B)**

**Register DSC**

**Step1:** Check whether your authorised signatory **PAN** is updated with sandbox credential or not.

Note– Authorised signatory PAN and DSC PAN should be same.

**Step2:** Register DSC on Sandbox by performing below actions. Step-1 **PAN** should be used in this step.

Signdata =PAN- > Hash(PAN)->Sign (Hash(**PAN**))

data =PAN

Payload

{

"data": "PAN",

"sign": “signdata”

}

**Step3: Validate Sign Data**

Validate signdata through sign data validator published on google group. If output is “**TRUE**” go to next step. In this utility pass “hash of data” in first attribute and “signdata” in second.

**FILE GSTR1 & GSTR2**

**Step1:** GSTR1 Summary Json = **get** GSTR1 Summary Json using GSTR1 summary API

**Note: “data” attribute of response will contain encrypted Summary JSON. You have to decrypt it as for other APIs and you will get base64 encode summary json (GSTR1 Summary Json).**

data= Base64encode(GSTR1 Summary Json)

signdata= Sign(SHA 256(data))

**Payload**

{

action: RETFILE,

data: encrypted (data) ,

sign: signdata,

st: DSC,

sid: PAN

}

**Step2: Validate Sign Data**

Validate signdata through sign data validator published on google group. If output is “**TRUE**” go to next step. In this utility pass “SHA256(data)” in first attribute and “signdata” in second.

**FILE GSTR3B**

**Step1:** Get GSTR3B JSON Summary for particular GSTIN and ret\_period.

**Data** = (Encrypt (Encode(GSTR3B JSON Summary)) with public key)

**Step2:** Get GSTR3B JSON Summary for particular GSTIN and ret\_period.

Divide PARTA and PARTB(Payment of tax) from GSTR3B JSON Summary payload.

            [**Ref**: [Find Attached file](GSTR3B%20Summary%20Details.txt) (GSTR3B Summary Details) for PARTA and PARTB]

**Sign** = Sign(**SHA-256**(SHA-256(**PARTA**))+(SHA-256(**PARTB**))) using emSigner with valid certificate.

**Paylaod**

{

    "action" :"RETFILE",

     "data"  : "**Data**",

     "sign"  : "**Sign**",

     "st"      : "DSC",

     "sid"    : "PAN No"

    }

**FAQ:**

1. **Mismatch of signed data & payload**
2. **If hash of data is not signed then this issue comes. But if you are following above steps and validating properly, then this should not be the reason.**
3. **If you are signing with DSC, which has not been registered in Sandbox.**
4. **You PAN is not updated in Sandbox as Authorized signatory**
5. **DSC is not registered with Sandbox**
6. **Invalid API Payload**
7. **This should not come generally but if it comes try signing after some time.**

**URL**

**SignDataValidator Sample Code:** [**https://groups.google.com/forum/?hl=en#!topic/gst-suvidha-provider-gsp-discussion-group/-28zAWCnHrg**](https://groups.google.com/forum/?hl=en%23!topic/gst-suvidha-provider-gsp-discussion-group/-28zAWCnHrg)

**Register DSC:** [**http://taxpayerapi/v0.2/registerdsc/taxpayerapi/v0.2/registerdsc**](http://taxpayerapi/v0.2/registerdsc/taxpayerapi/v0.2/registerdsc)